Intern - Bioinformatics Next Gen Sequences


When you’re part of the team at Thermo Fisher, you’ll do important work. And you’ll have the opportunity for continual growth and learning in a culture that empowers your development. With revenues of $17 billion and the largest investment in R&D in the industry, we give our people the resources and opportunities to make significant contributions to the world.

Ion AmpliSeq™ technology delivers simple and fast library construction for affordable targeted sequencing of specific genes or genomic regions. Since its launch in 2011, Ion AmpliSeq targeted sequencing technology has seen broad global adoption. Applications span variant detection, assessing gene copy number alterations, defining genetic changes associated with cancer, quantification of gene expression and beyond.

Thermo Fisher is seeking a Bioinformatics Intern to work in our Life Science Solutions Group. This position is focused toward the development of analytical pipelines for novel AmpliSeq based applications using Ion Torrent S5 and S5XL sequencing platforms. The desire is to explore methods and pipelines for the challenging bioinformatics problems in targeted next-generation sequencing field. Work would be related but not limited to the following:

• Develop tools/pipelines for quality control, pre-processing, alignment, and target detection.
• Refine and improve existing tools/pipelines to achieve higher sensitivity and specificity.
• Explore and adopt novel tools and algorithms for Ion Torrent applications.

The group at Ion Torrent is very fast paced with milestones such as white-papers/publications and therefore provides the intern with an opportunity to making significant contributions towards these.

Minimum Qualifications:
• Must be currently enrolled at an accredited university working pursuing a Bachelor’s, Master’s or PhD program in Bioinformatics, Computational Biology, Biostatistics or a Biology/Statistics/Computer Science related discipline.
• Must have at least 1 semester/quarter of classwork to complete after the internship or starting an advanced degree program.
• Prior knowledge of next generation sequencing, especially open-source analytical pipelines and proficiency in BioConductor/R, python and perl

At Thermo Fisher Scientific, each one of our 50,000 extraordinary minds has a unique story to tell. Join us and contribute to our singular mission—enabling our customers to make the world healthier, cleaner and safer.